

ADMINISTRATIVE -- INTERNAL USE ONLY

13 DEC 1972

MEMORANDUM FOR: Staff Architect, Real Estate and Construction
Division, OL

SUBJECT : Replacement Computer Area, Headquarters

REFERENCE : Memo dtd 7 Dec 72 to C/RECD/OL fm D/L,
same subject

Bob:

Following are some ideas on the study we discussed:

1. The referenced memorandum is based on a proposal made to the Director of Logistics to initiate an internal study to consider alternatives to replace existing areas housing Agency computers (i.e., the areas housing OCS, ISD, CRS, and AND/OEL). Reasoning behind the need for replacement space includes considerations that:

a. Existing computer areas have environmental restrictions that significantly decrease computer reliability and flexibility. Factors include inadequate floor space; inadequate "crawl" space beneath computer floors; lack of cable trays, power conduit, or grounding grids beneath computer floors, presence of under floor high pressure chilled water in rubber hoses mixed with power and signal cables, patchwork air conditioning systems with inadequate controls for temperature or humidity.

b. Increased sensitivity of computer equipment plus the restrictions cited in 1a. above makes it increasingly difficult to meet minimum environmental criteria for current generation equipment.

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c. Existing conditions significantly increase the difficulty and cost of facilities maintenance.

2. The concept to create a new area includes the following thoughts:

a. Existing areas must remain in operation with full utility backup.

b. The north end of the building on the ground or first floor appears to be the only suitable area because:

(1) The power vaults and air conditioning systems are expandable and currently support non-critical functions.

(2) Ceiling height restricts floor sections.

c. Space required should equal that in the current centers plus 10 percent for expansion.

d. Configuration and facilities should include:

(1) Backup power and air conditioning systems or capability.

(2) Minimum 3 feet high elevated floors.

(3) Beneath-floor grids for cable tray, power conduit, equipment grounds, and chilled water lines.

(4) Recording and control equipment for power and air conditioning (voltage, frequency, temperature, and humidity).

(5) Centrally controlled variable lighting intensity.

(6) Dust control.

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(7) Fire detection and protection
equipment.

(8) Centralized maintenance and storage
areas.

e. Construction of the area will necessitate evacuation of the occupant and probable leasing of additional outside space until current computer areas can be evacuated for reoccupancy.

3. Considerations for study procedures include the following. It is anticipated that HEB and ADS will provide assistance in utilities and space analysis.

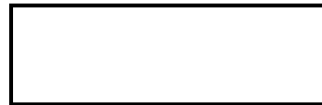
a. Identification of potential areas for occupancy (including tenants to be temporarily relocated either elsewhere in Headquarters or externally).

b. Determination of feasibility of meeting criteria per paragraph 2 above.

c. Preparation of a preliminary scope of work.

d. Preparation of budgetary cost and time estimates.

e. Completion of analysis and feasibility study should be by 1 February with briefing/recommendation paper (if concept is feasible) by 15 February.



Chief

Real Estate and Construction Division, OL

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